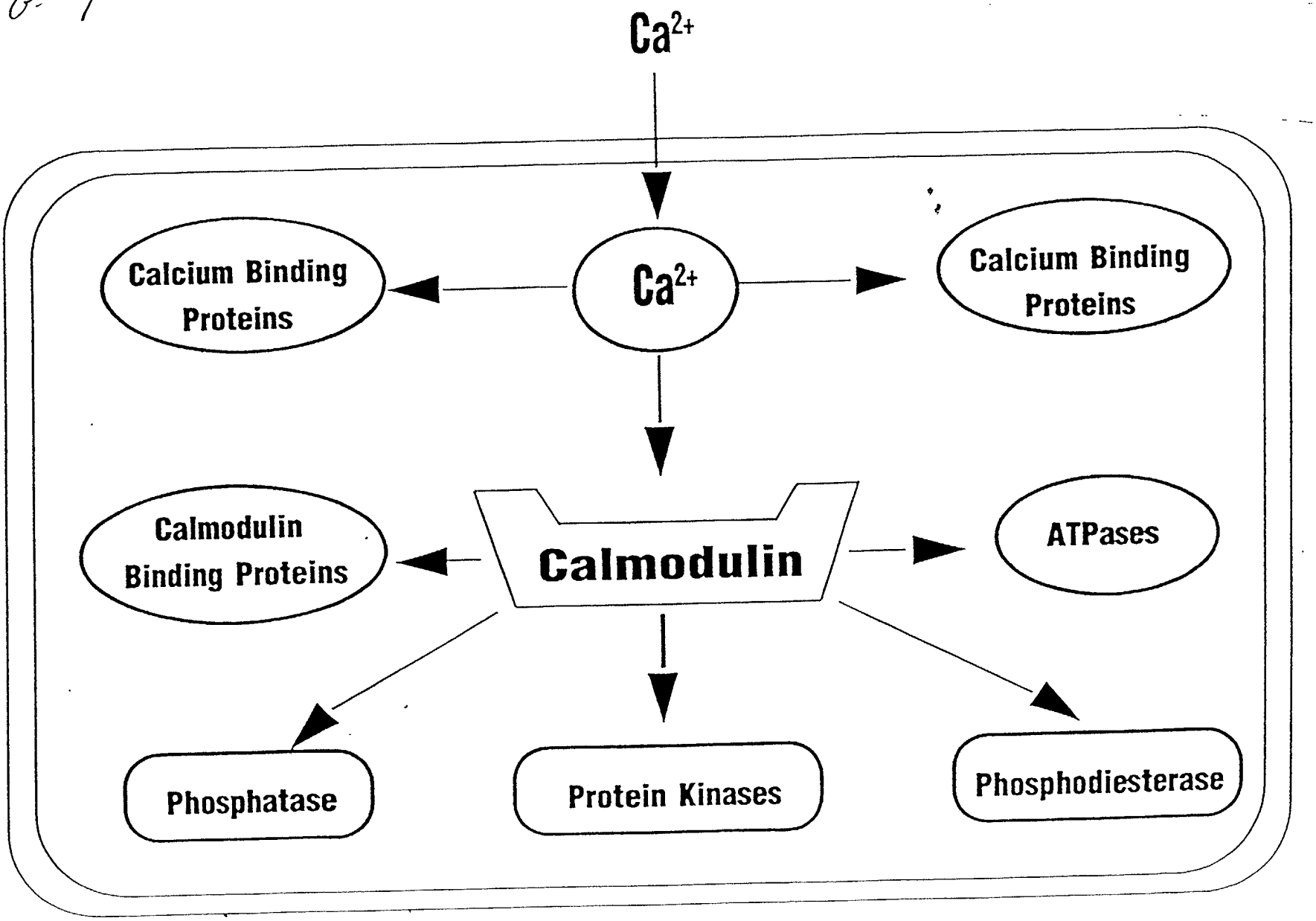
FIG. 1



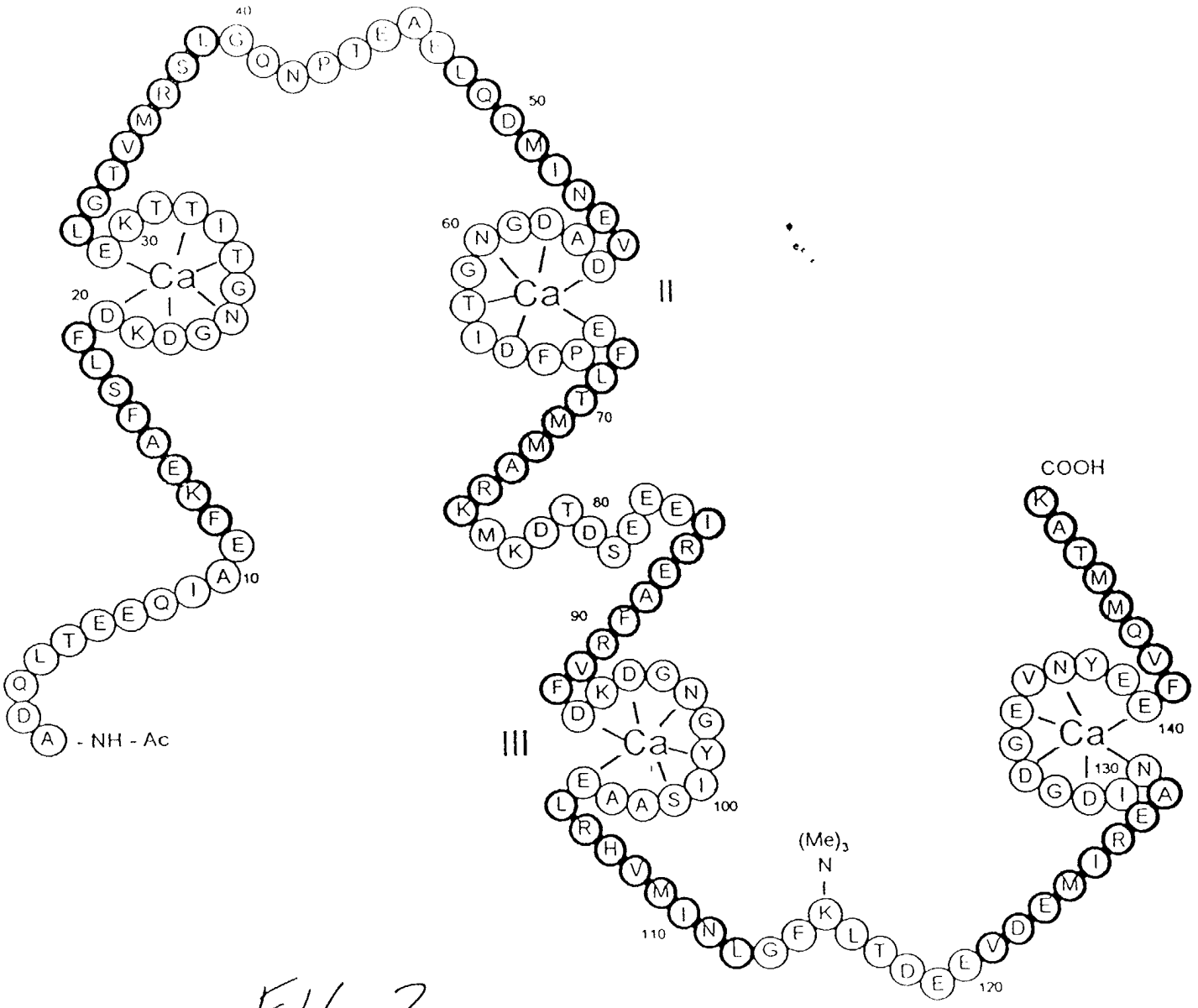


FIG. 2

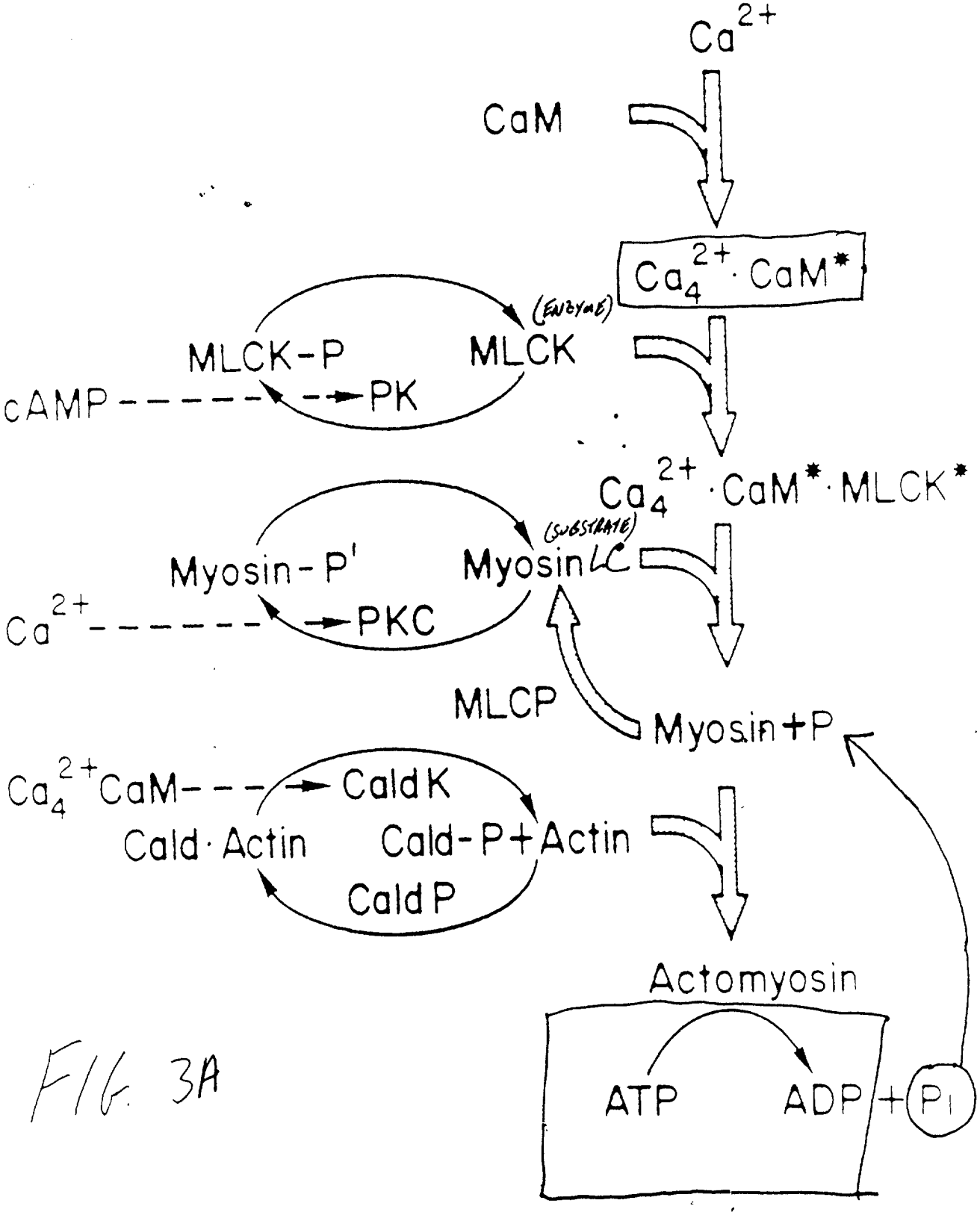

Ca^{2+}
CaM
$Ca_4^{2+} \cdot CaM^*$
(ENZYME)
MLCK-P
MLCK
cAMP
PK
$Ca_4^{2+} \cdot CaM^* \cdot MLCK^*$
(SUBSTRATE)
Myosin-P'
Myosin LC
Ca^{2+}
PKC
MLCP
Myosin+P
Ca_4^{2+}CaM
Cald K
Cald · Actin
Cald-P+Actin
Cald P
Actomyosin
ATP
ADP
P_i

FIG. 3A

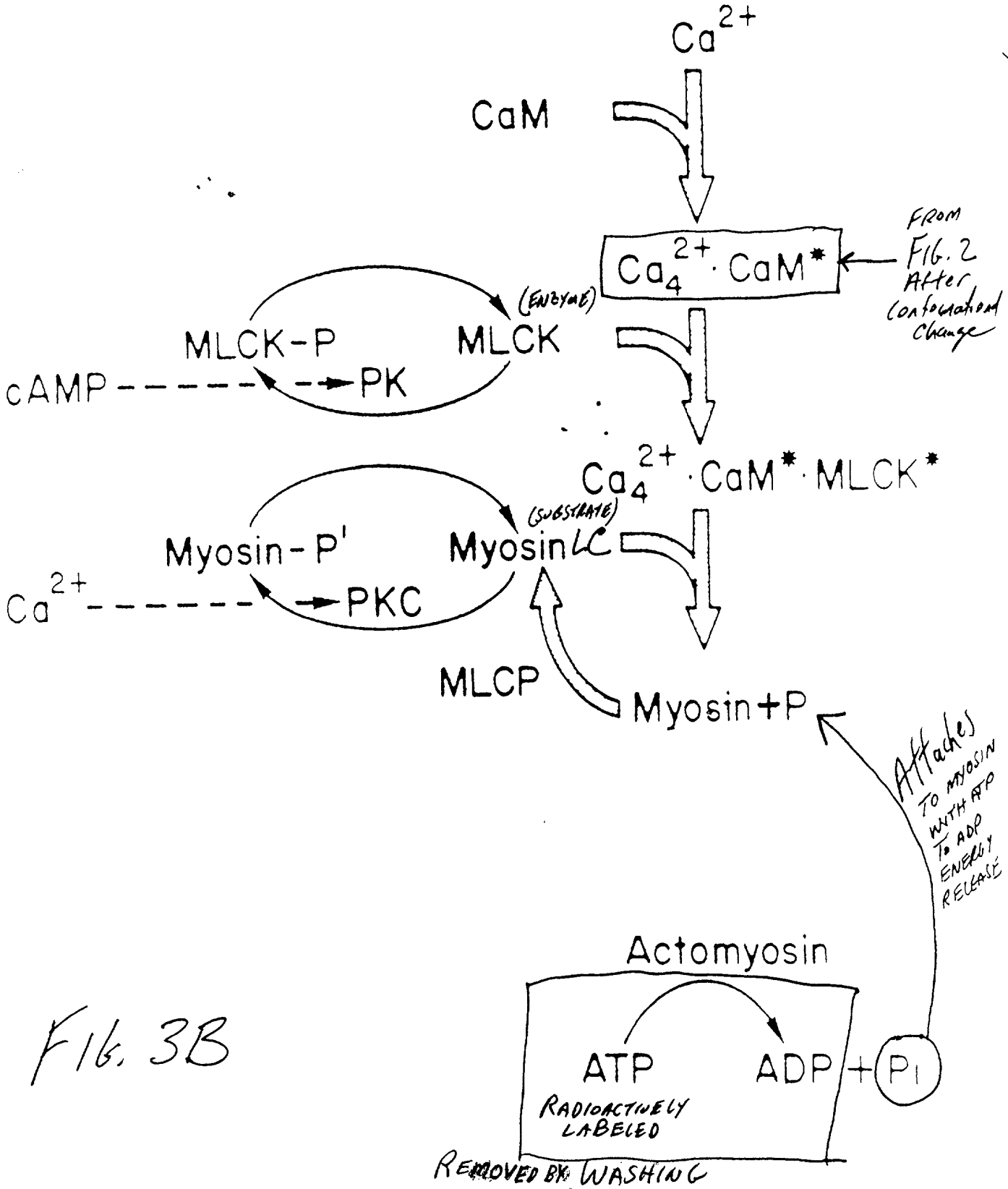

Ca^{2+}
CaM
$Ca_4^{2+} \cdot CaM^*$
FROM FIG. 2 After Conformational Change
(ENZYME)
MLCK
MLCK-P
cAMP
PK
$Ca_4^{2+} \cdot CaM^* \cdot MLCK^*$
(SUBSTRATE)
Myosin LC
Myosin-P'
Ca^{2+}
PKC
MLCP
Myosin+P
Attaches to myosin with ATP to ADP energy release
Actomyosin
ATP
ADP
P_i
RADIOACTIVELY LABELED
REMOVED BY WASHING

FIG. 3B

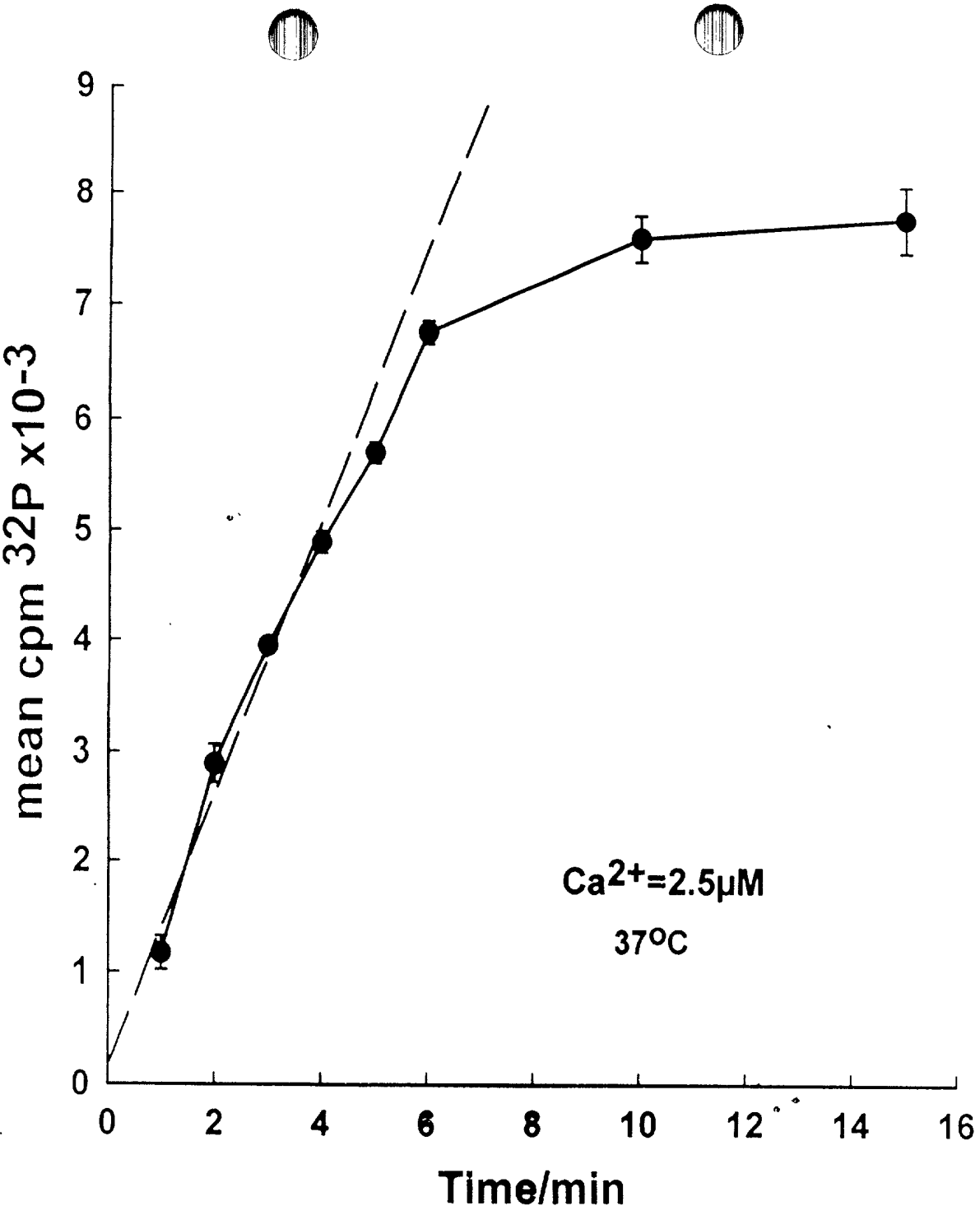

mean cpm 32P x10-3
Time/min
Ca2+=2.5μM
37°C
0
1
2
3
4
5
6
7
8
9
0
2
4
6
8
10
12
14
16

Fig. 3C

Dependence of CD31 staining

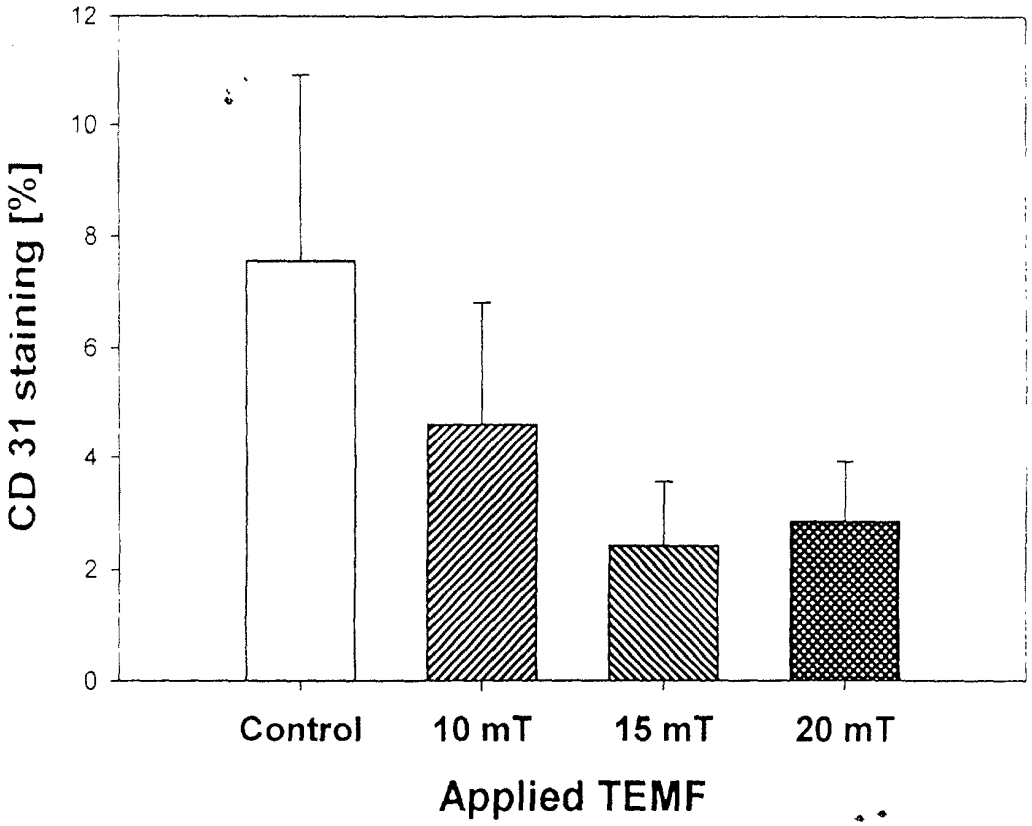


FIG. 4

Decrease in CD31 staining as response to applied TEMF [% vs.control]

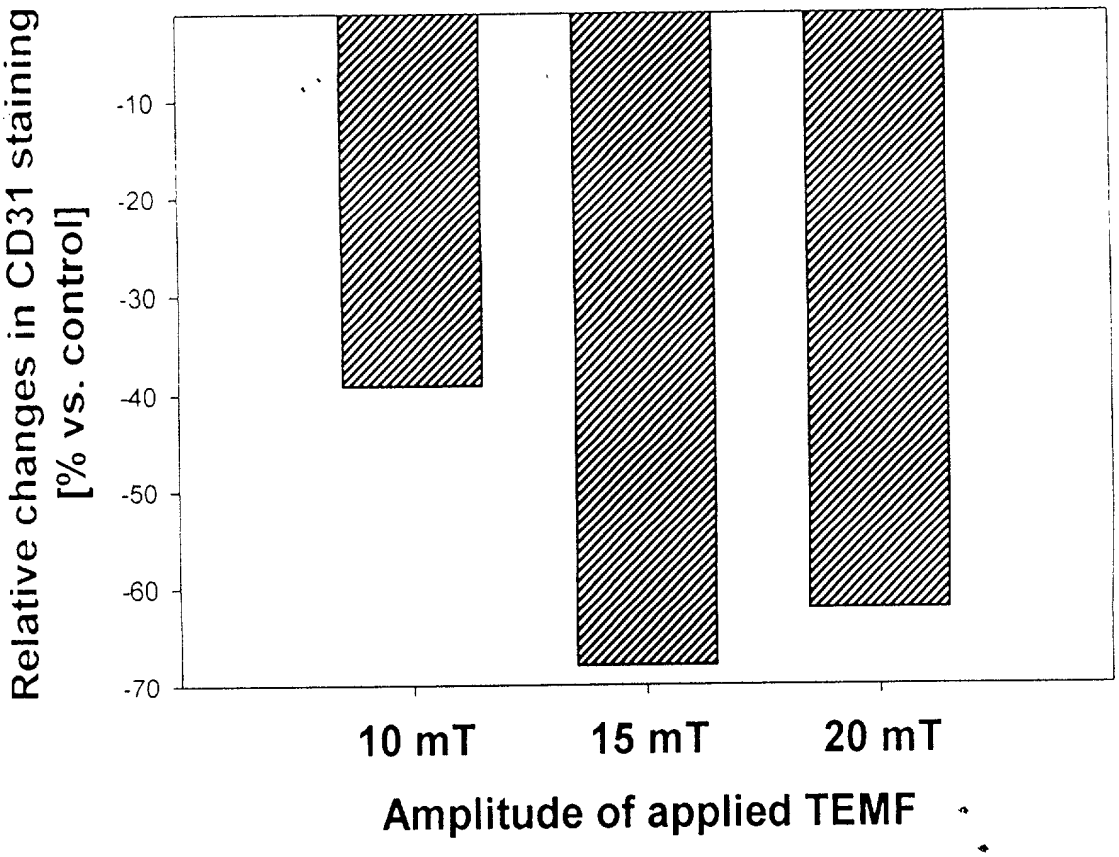


FIG. 5

Myosin Phosphorylation as Function of Applied Static Magnetic Field

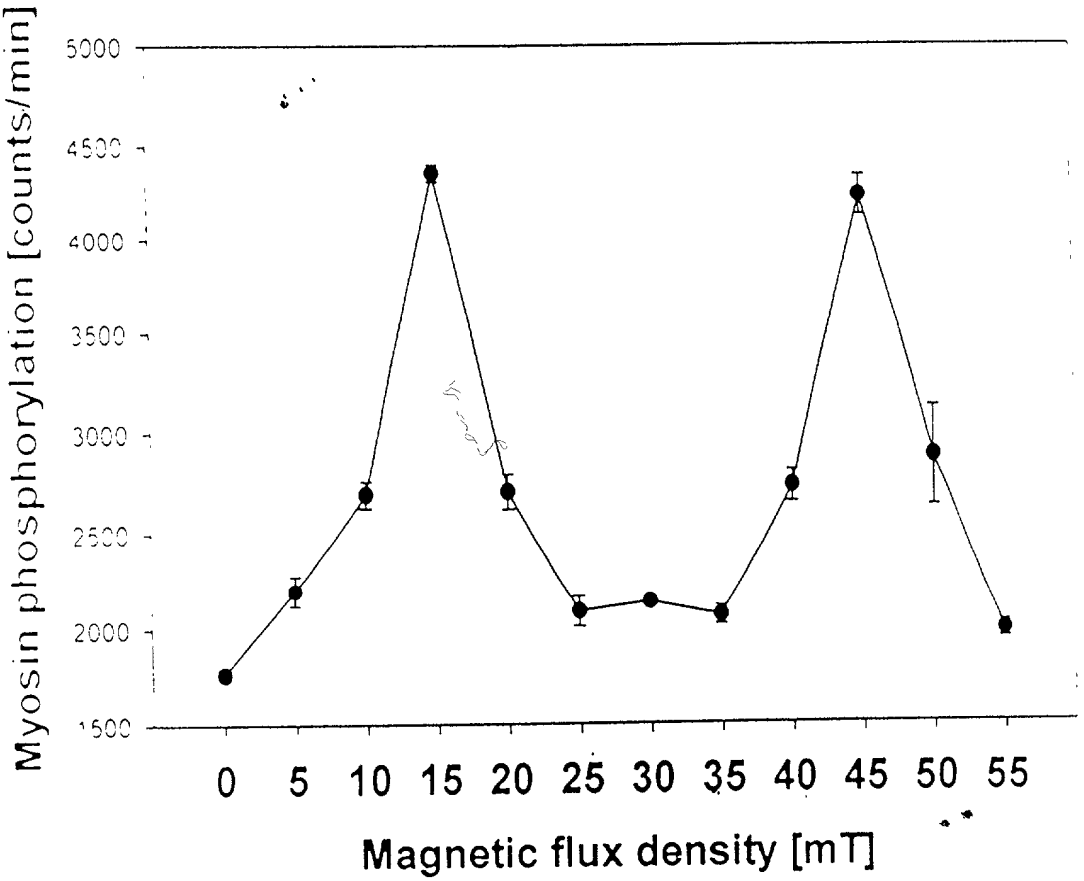


FIG. 6

Effects of Constant Magnetic fields (CMF) and Pulsating Magnetic Fields (TEMF) on Myosin Pnosphorylation

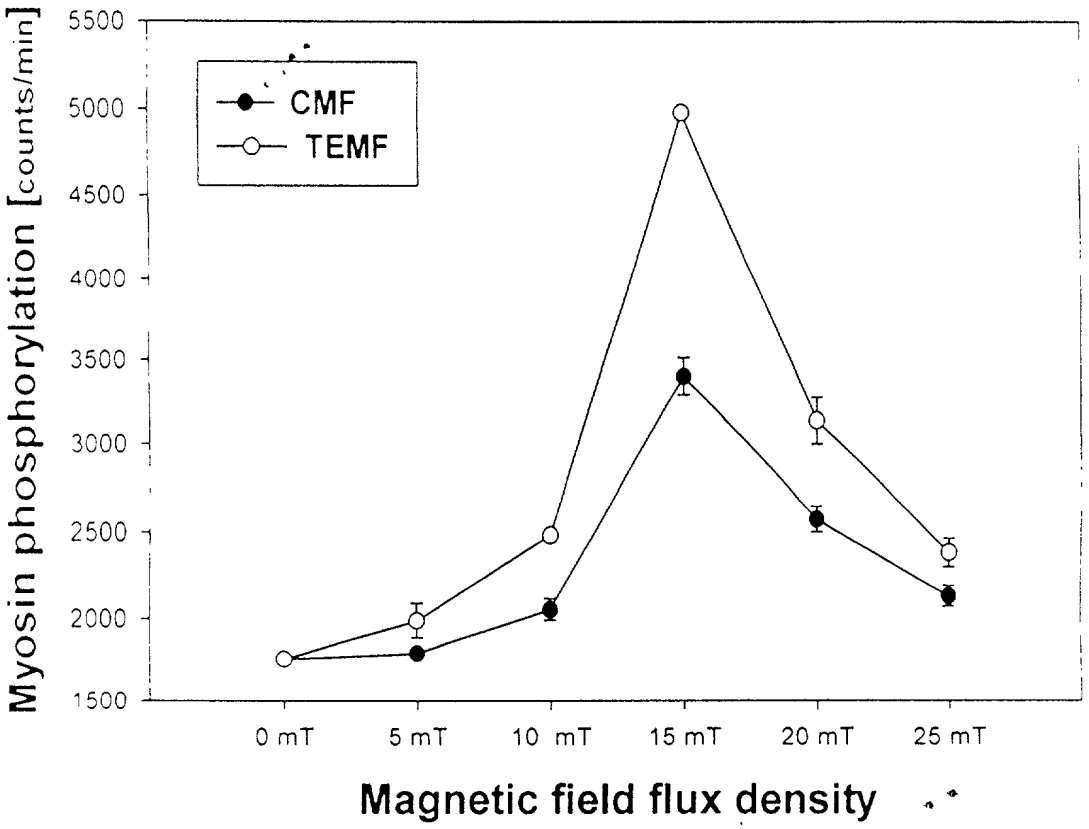


FIG. 7

Dependence of myosin phosphorylation on frequency of TEMF at B=15 mT Average of 7 experiments

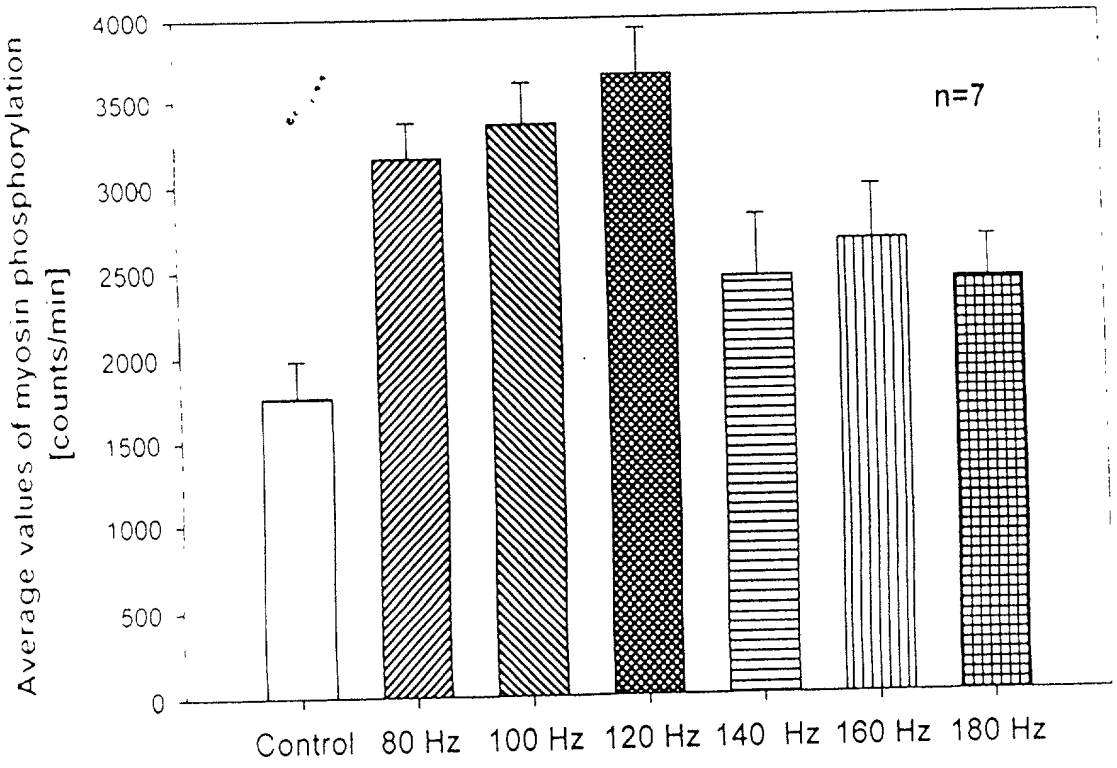


FIG. 8

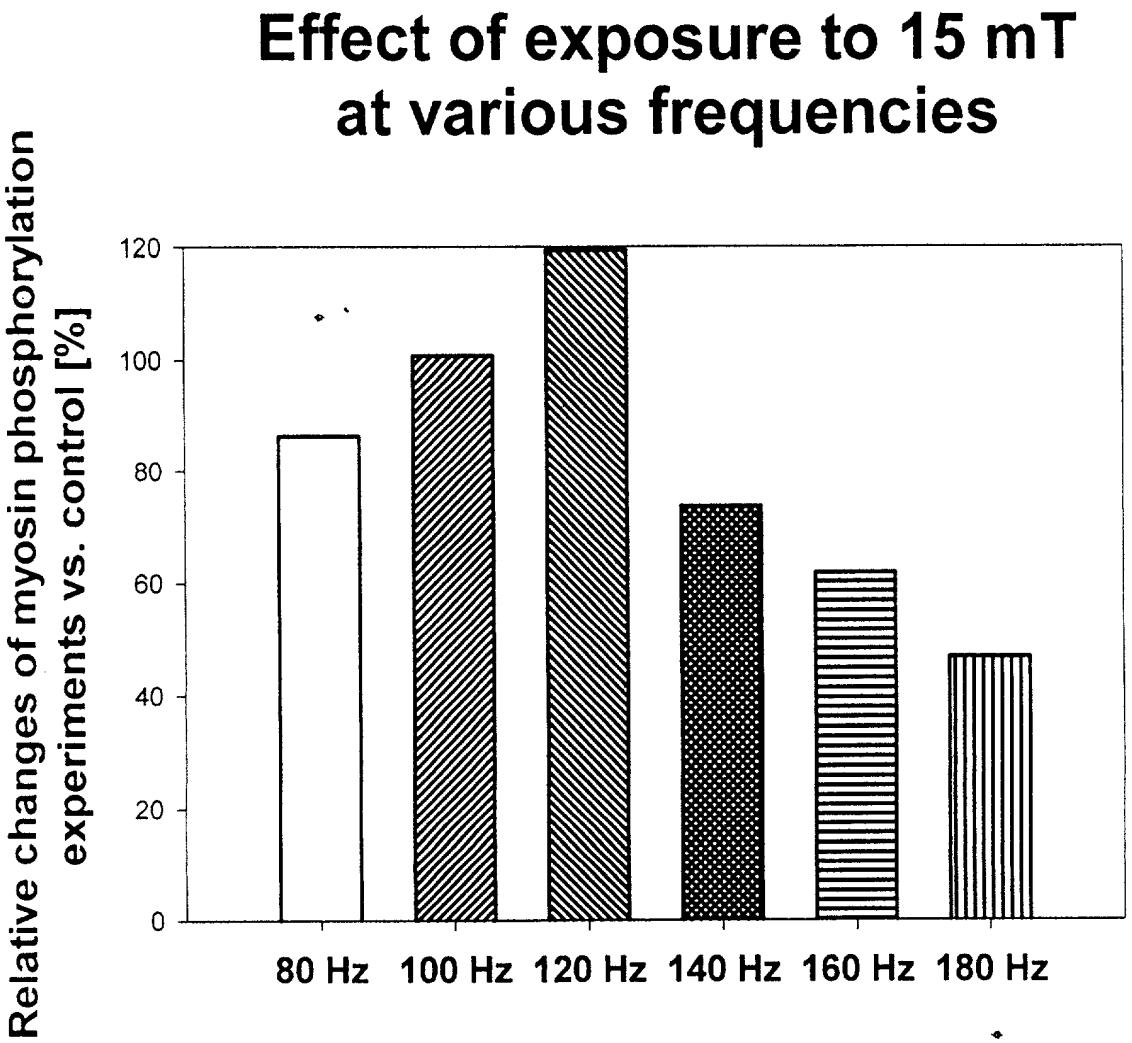

Effect of exposure to 15 mT
at various frequencies
Relative changes of myosin phosphorylation
experiments vs. control [%]
120
100
80
60
40
20
0
80 Hz
100 Hz
120 Hz
140 Hz
160 Hz
180 Hz

FIG. 9

SCANNED #14

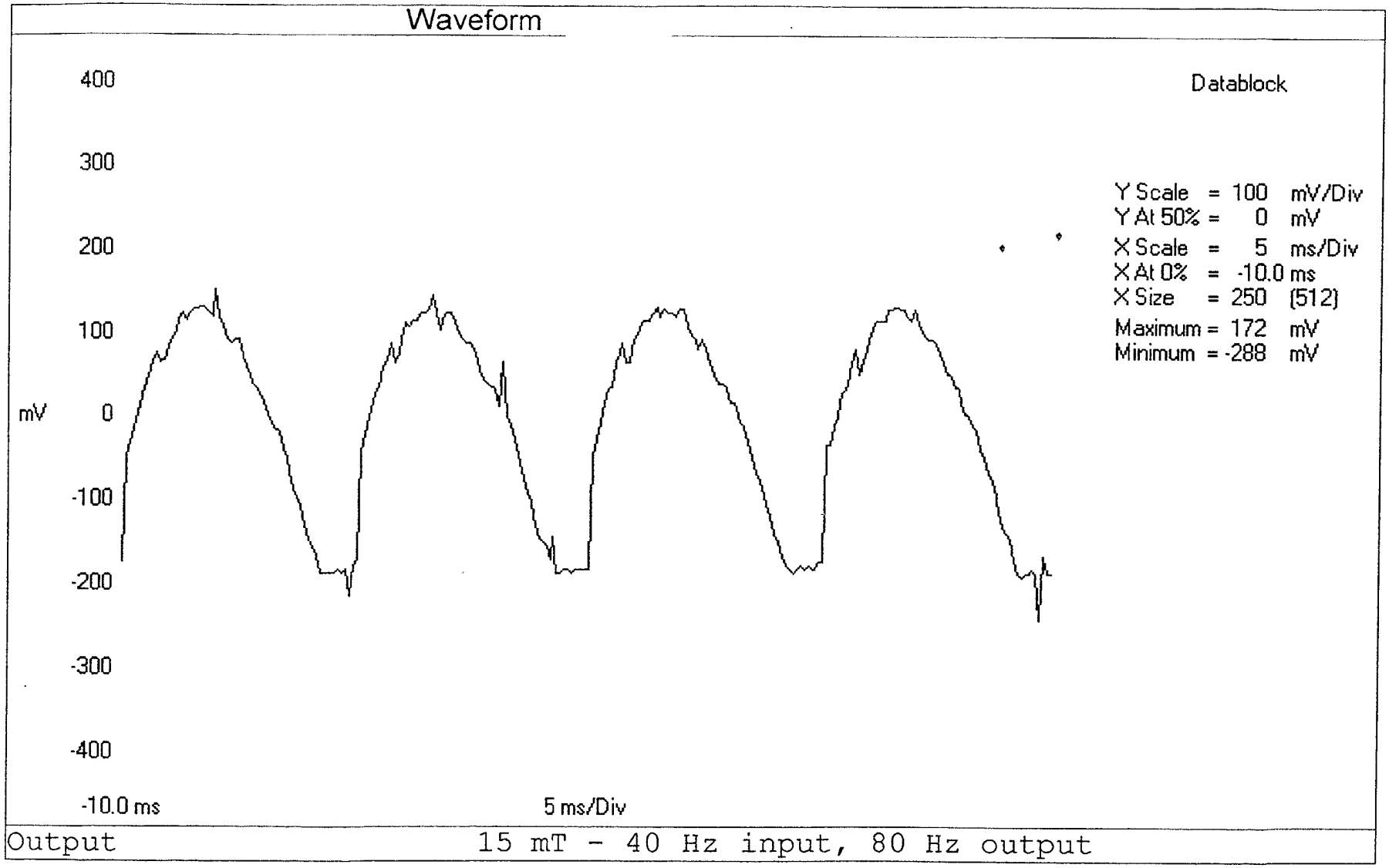


FIG. 10

SCANNED #14

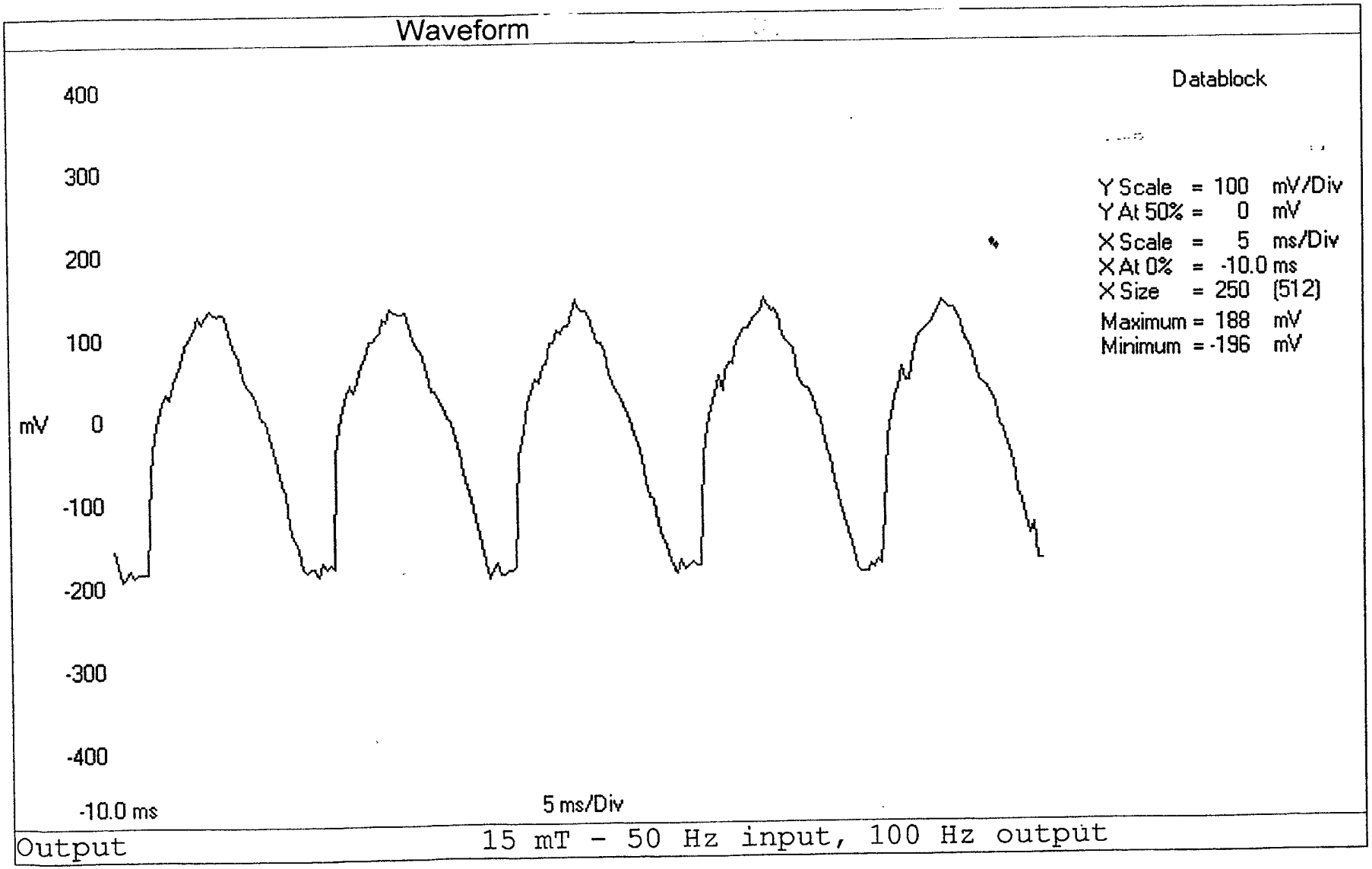


FIG. 11

SCANNED, # 14

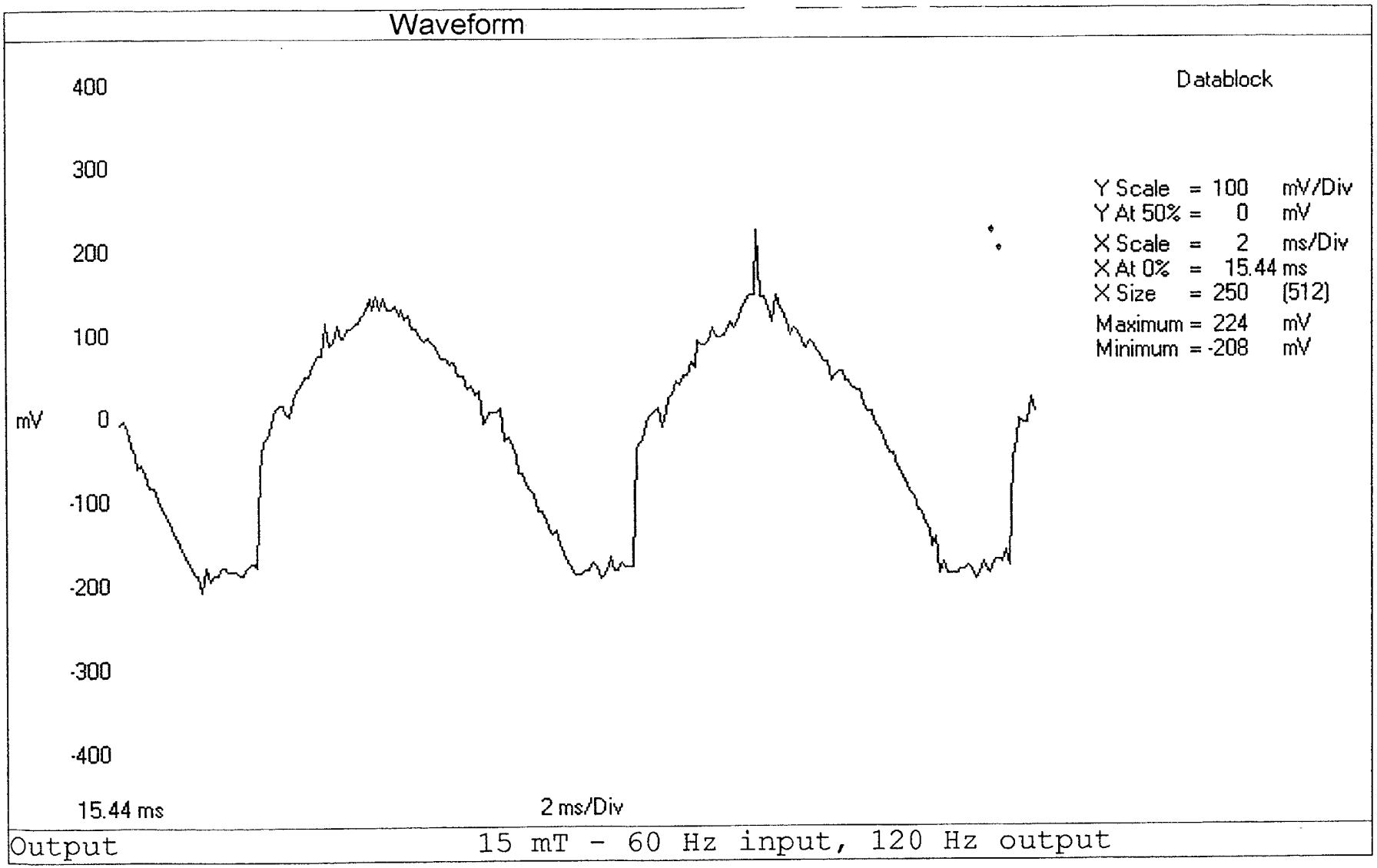


Fig 12

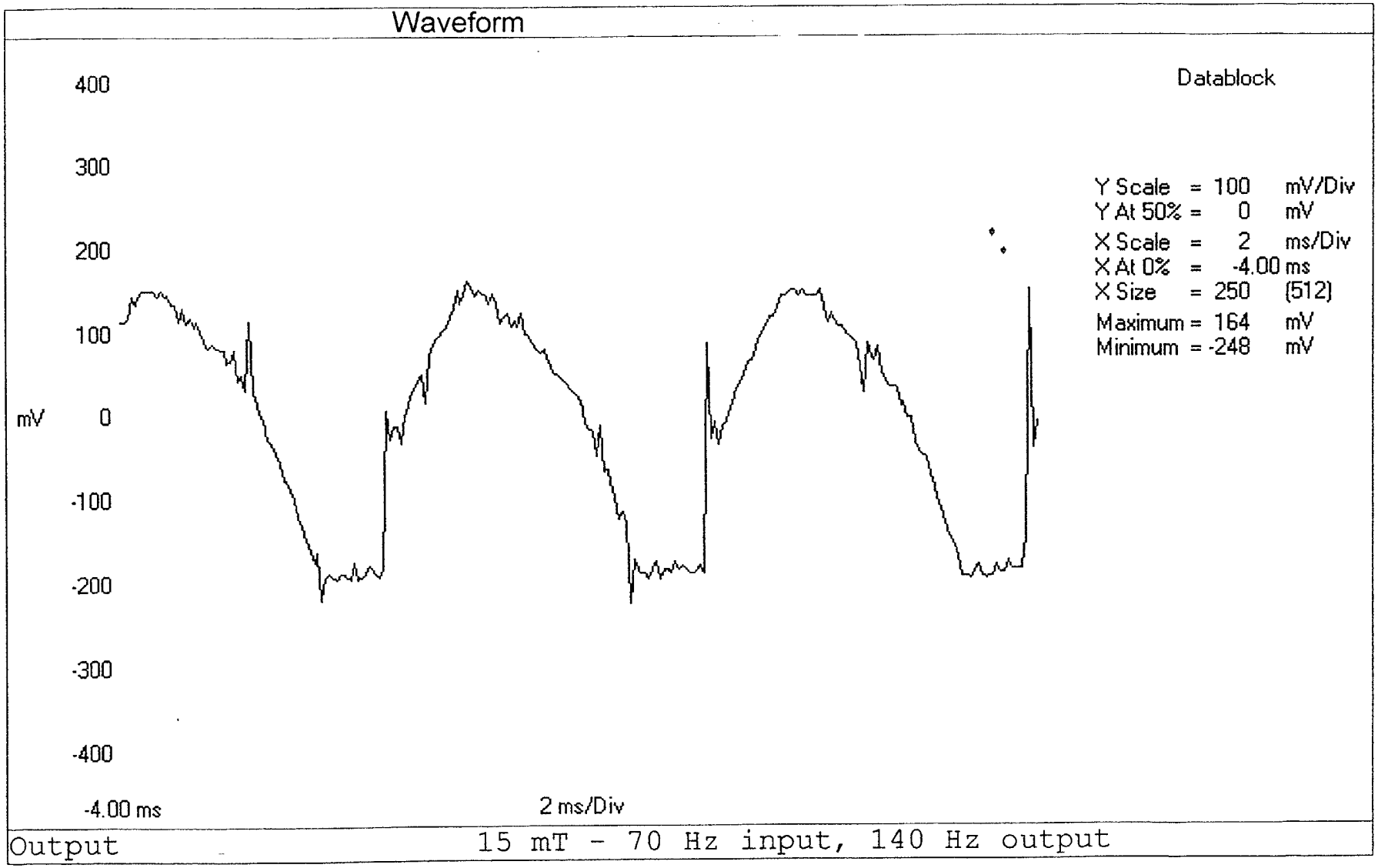


FIG. 13

SCANNED, # 14

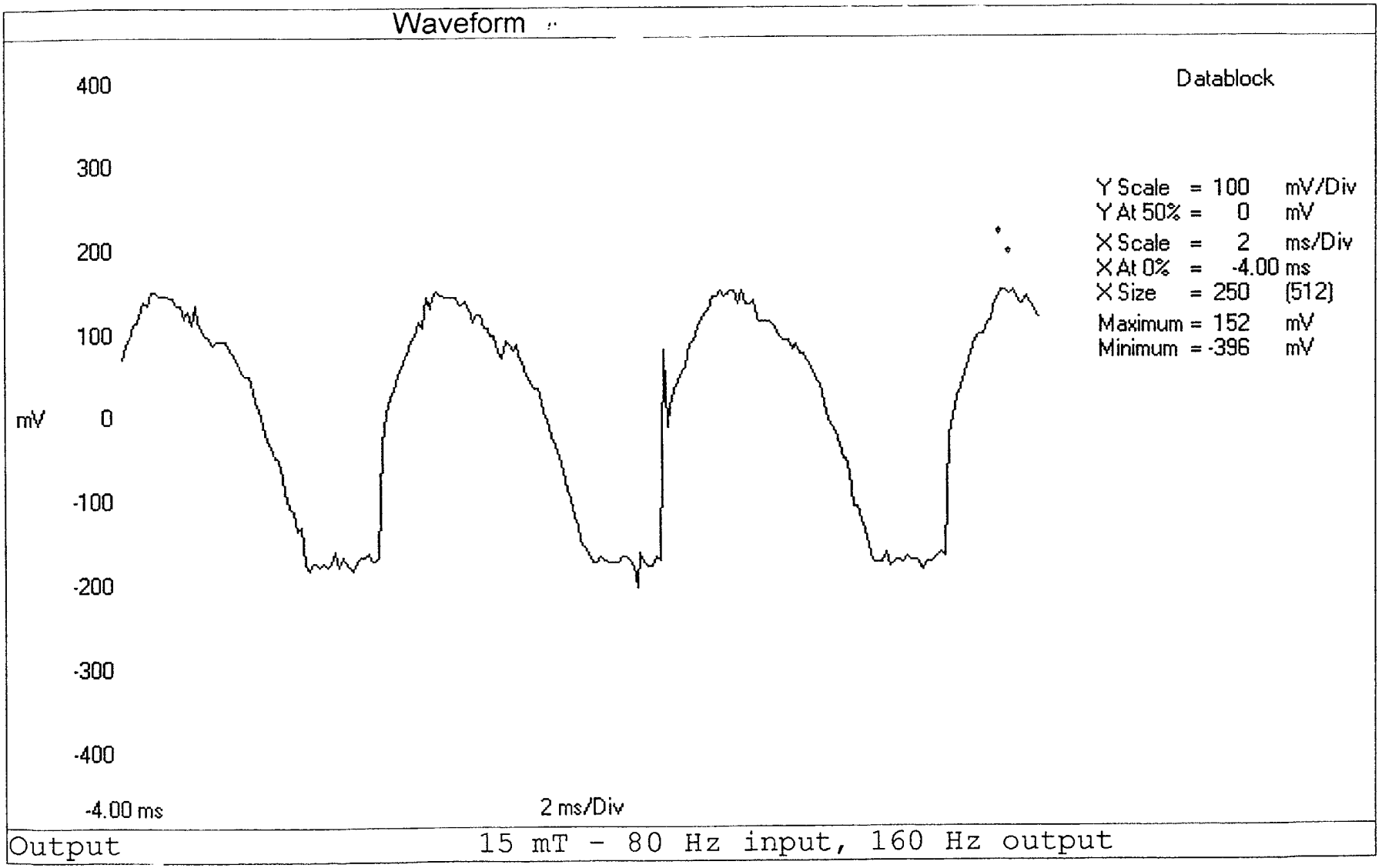


Fig. 14

SCANNED, # 14

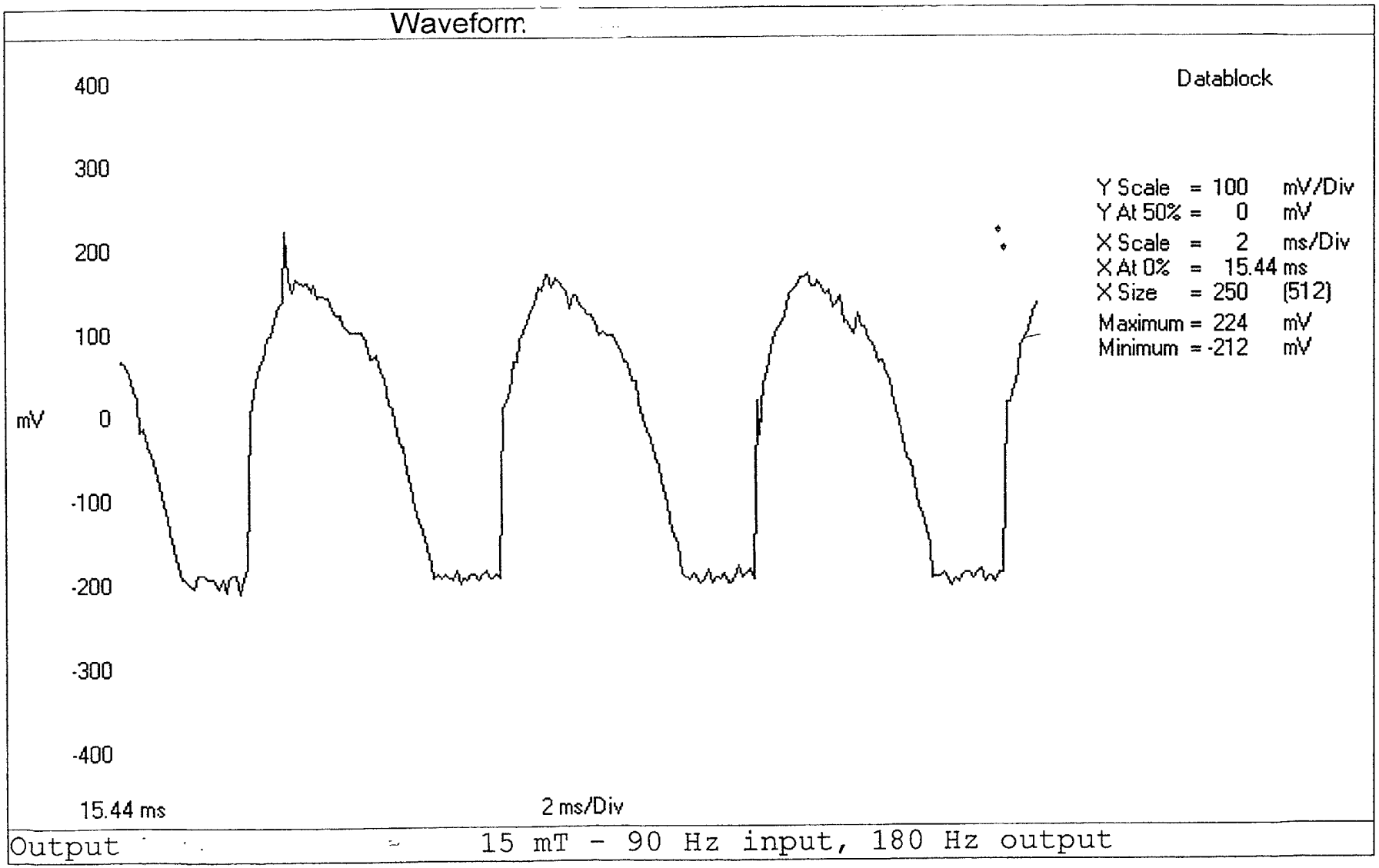


FIG. 15